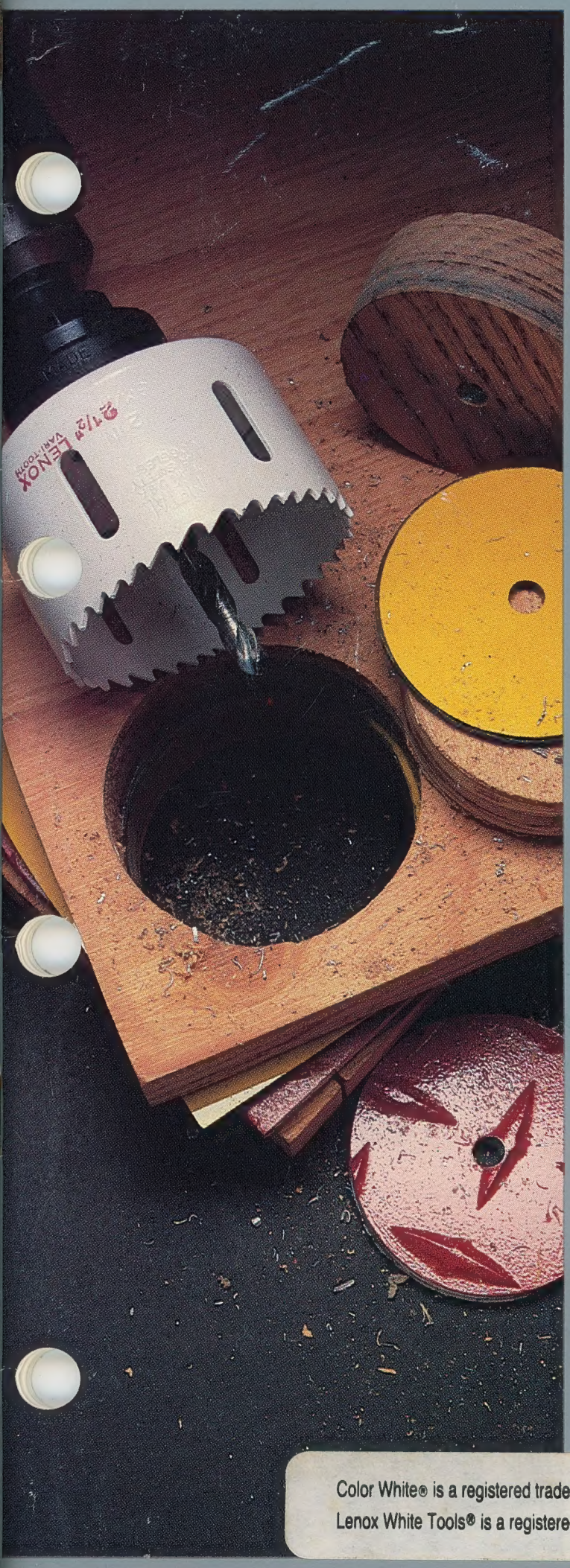
LENOX®
HAND TOOLS
FOR THE PROFESSIONAL

LENOX®



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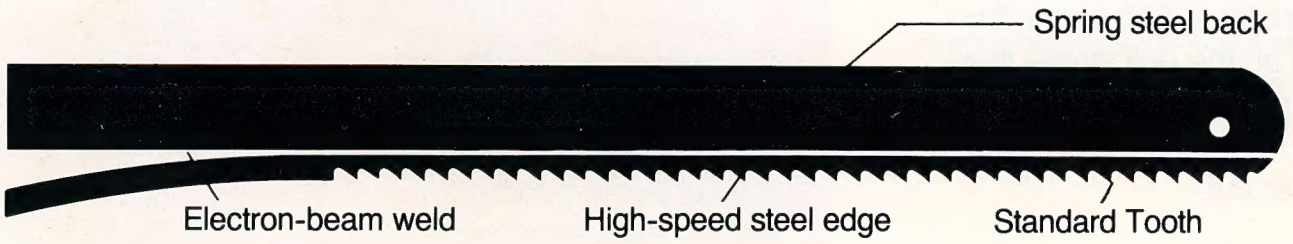
Our business is exclusively the manufacturing of saw blades and related tools for separating materials, while providing information and services directly related to those products. Our market is the professional cutting tool user. Our commitment to this market is to produce products better than anyone else—to back up their quality with expert technical services and customer support. Our dedication is to combine U.S. technology with American Saw quality. It has built the Lenox reputation people have come to know and trust. We do this in more than 50 countries around the world.

Lenox Electron-Weld, Neo-Type, Vari-Tooth, Hackmaster, Hackmaster 2, Rapier, and Vari-Bit are registered trademarks of American Saw & Mfg. Company.

HACKMASTER 2® HACKSAW BLADES

- Shatterproof Hackmaster 2® bi-metal blades cut stainless, pipe, conduit, bar & rod, aluminum, brass, copper...almost any material.
- With high tension frames, you get the straightest possible cuts, longest life.
- Full assortment of frames, handles.

Blade Construction



HACKSAW TIPS

GETTING THE MOST OUT OF YOUR HAND HACKS.

TOOTH DIRECTION IS CRITICAL.

All hacksaw devices that keep the blade under tension are designed for two-handed push stroke cutting, and the blade should be installed with the teeth facing away from the handle.

All hacksaw frames that don't tension the blade are designed for single-handed pull stroke cutting, and the blade should be installed with the teeth pointing toward the handle.

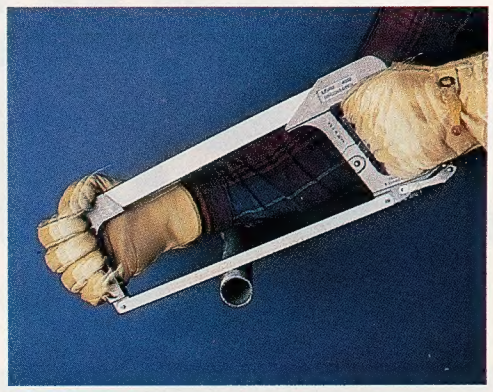
BLADE TENSION.

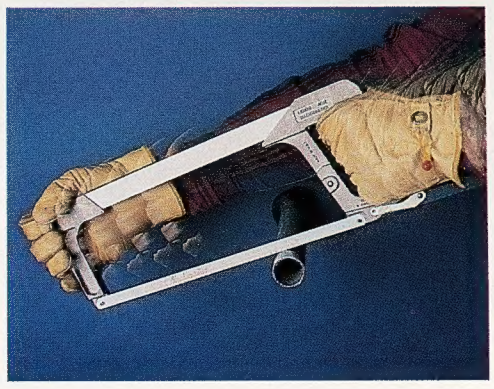
Unless otherwise indicated, hand-tighten the blade as much as possible.

CUTTING CONDUIT OR PIPE USING KNEE AS SUPPORT.

When cutting conduit or pipe using the knee as support, it's best to install the blade with teeth pointing towards the handle. That way the pipe does not roll off the knee—the arm acts as a brace. The blade then cuts on the pull stroke thereby giving additional support for a faster, smoother, easier cut.

CUTTING TECHNIQUES THAT SAVE TIME AND BLADE WEAR.





1. Begin cutting on an angle with short, even, forward strokes. Once your line is set, switch to full length strokes of the blade.

2. During cutting, bear down just enough to feel the teeth bite along the full length of the blade. Relax the pressure on each return stroke to prevent blade dulling.

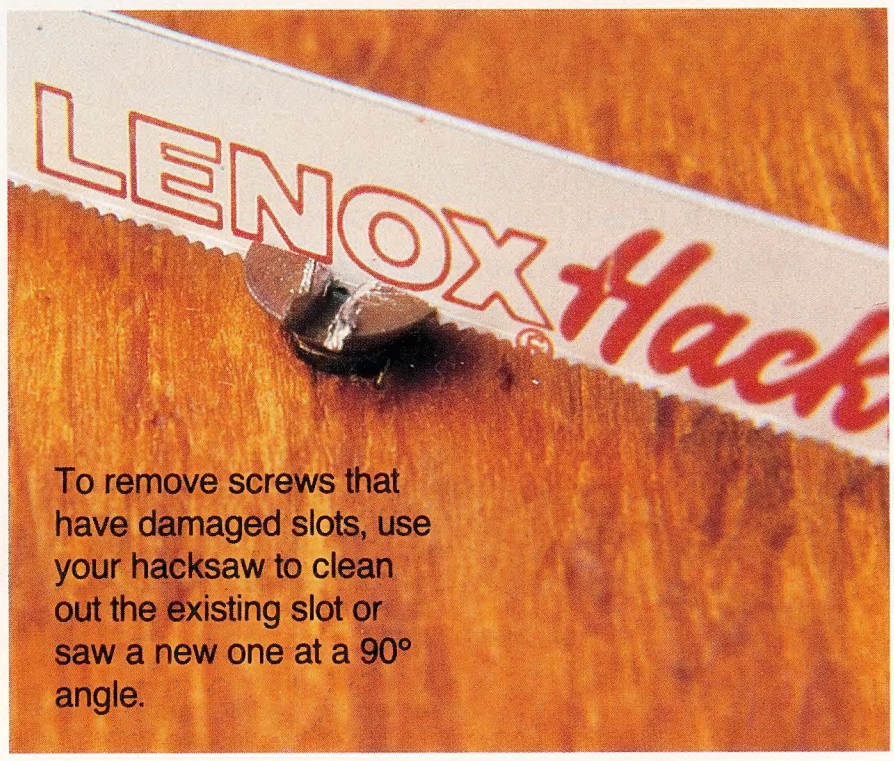
3. To prevent snagging, select a blade that keeps at least six teeth in the workpiece at all times.

4. Take smooth, continuous strokes: about 55/min. for cutting mild materials like aluminum, brass, and lead; 40/min. for tough materials like stainless steel or tool steels.

CHANGING BLADES DURING A CUT.

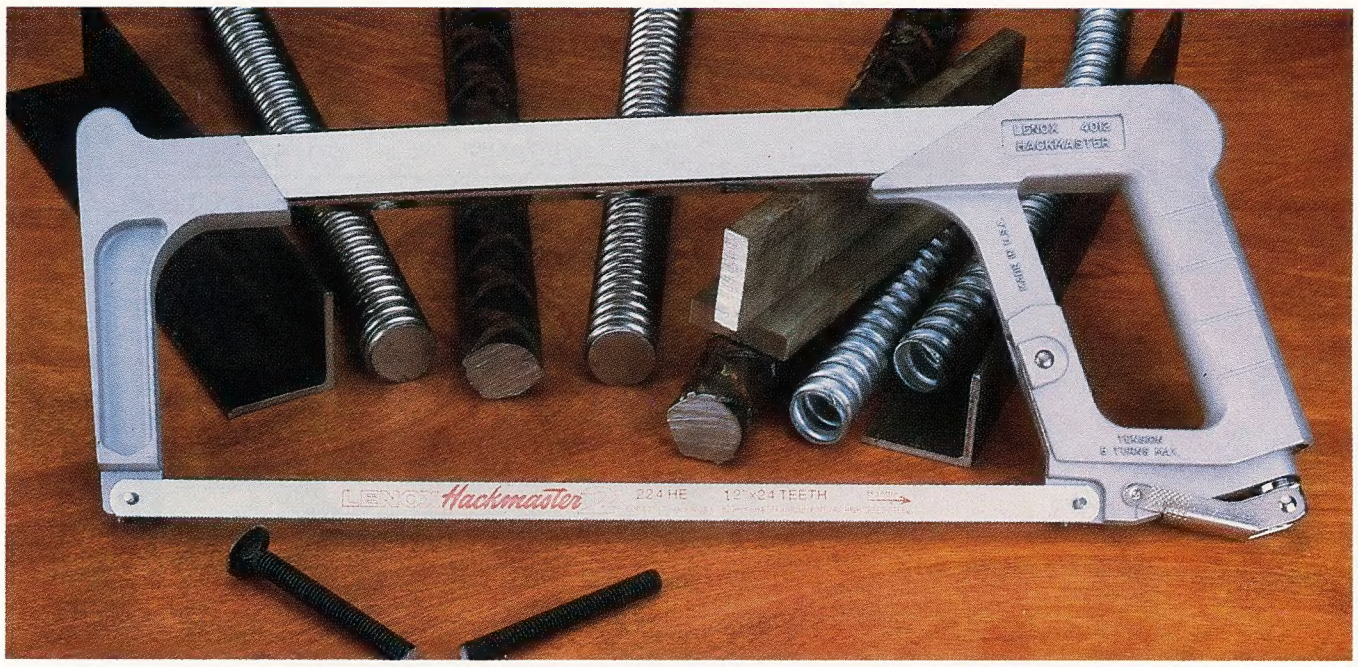
Starting a new blade in an unfinished cut will make the saw bind. Instead, turn the workpiece over and start the new blade in a fresh cut. Saw through to meet the original cut.

EASY REPAIR OF A SCREW HEAD.



To remove screws that have damaged slots, use your hacksaw to clean out the existing slot or saw a new one at a 90° angle.

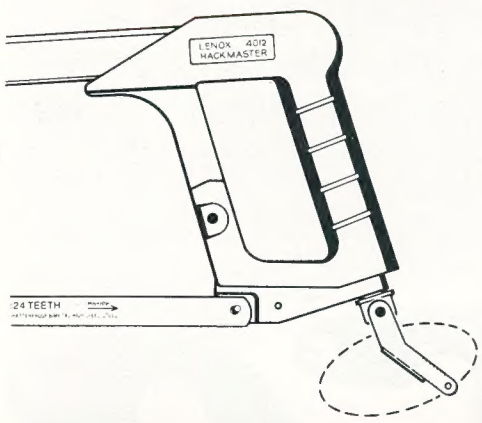
HACKSAW FRAMES & HANDLES

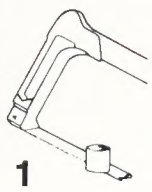


LENOX NO. 4012
HACKMASTER® HIGH TENSION HACKSAW FRAME

- You will never cut with another saw once you've tried this amazing precision-cast aluminum and steel frame.
- Lever tensions the 12" Hackmaster 2® blade to 28,000 psi (about twice that of ordinary frames).
- Blade doesn't twist when you bear down.
- Blade doesn't bind in tough materials or structurals.
- Permanent angled pins hold 12" blade when tension is relieved.

1. Mount blade at 45° for flush cutting jobs.
2. Use frame as jab saw (set screw holds blade in position).
3. Use as a compass saw with No. 20585-156R reciprocating blade.
4. Store spare blades inside tubular back.

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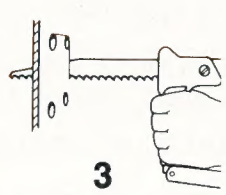
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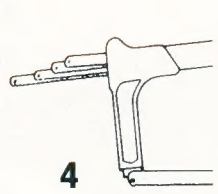
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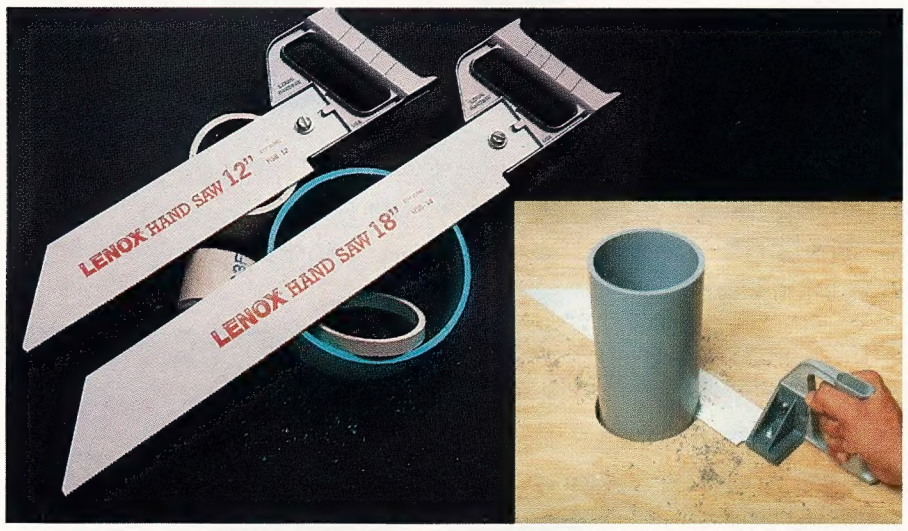


PVC/ABS PLASTIC PIPE HAND SAW & FLUSH CUTTING BLADE ADAPTOR

- This hand saw is designed for cutting PVC/ABS-plastic pipe, paneling, plywood, sheet rock, wood & other general purpose sawing.
- Saw cuts on both push and pull stroke to give more power, no binding.
- Teeth stay sharp because they are milled.
- Die-cast aluminum handle, replaceable tempered carbon steel 12" or 18" blade.
- Easy to assemble flush cutting blade adaptor. Designed to cut PVC pipe, two-by-fours, etc., flush with floors and walls.

PROFESSIONAL SMALL JOB No. 975 HACKSAW

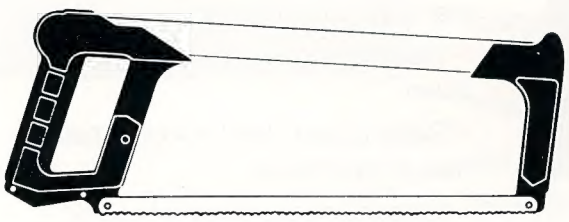
- This hacksaw is designed for hard to get at places.
- A versatile cutting tool that cuts bolts, wire, cable, pipe, tubing, conduit, sheet metal, rigid fiber board and plastic.
- Constructed with rugged die-cast aluminum.
- Comes with a 10" bi-metal 24 tooth blade.

HAND BLADES/FRAMES

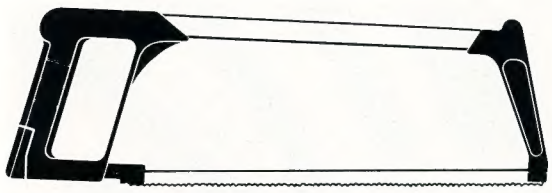
Specifications

Length x Width x Gage	Teeth	Bi-Metal Box	Bi-Metal Vinyl sleeve	Bi-Metal Skin packed
10″ x ½″ x .025″	18	20110-**018HE**	20140-**V018HE**	20150-**S018HE**
250mm x 13mm x .63 mm	24	20111-**024HE**	20141-**V024HE**	20151-**S024HE**
	32	20112-**032HE**	20142-**V032HE**	20152-**S032HE**
12″ x ½″ x .025″	14	20115-**214HE**		
300mm x 13mm x .63 mm	18	20116-**218HE**	20144-**V218HE**	20154-**S218HE**
	24	20117-**224HE**	20145-**V224HE**	20155-**S224HE**
	32	20118-**232HE**	20146-**V232HE**	20156-**S232HE**
* **12″ x ⅝″ x .032″**	14		20122-**614HE**	
300mm x 17mm x .80 mm	18		20123-**618HE**	

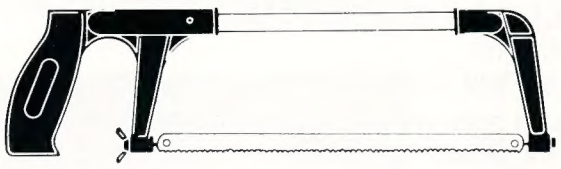
* Heavy duty



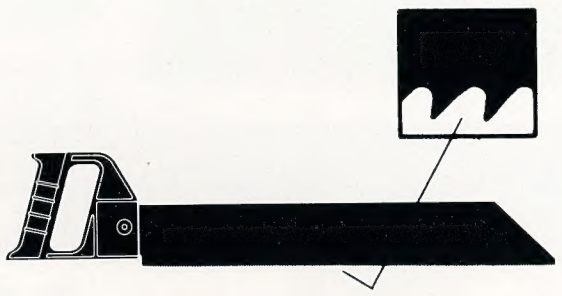
No. 4012 Hackmaster® High Tension Hand Hacksaw Frame With 12″ blade. Tension to 28,000 psi. The finest frame you can buy. Product No. 20918-**4012**



No. 1210 Hackmaster® High Tension Hand Hacksaw Frame With 12″ blade. Also takes 10″. Tension to 20,000 psi. Product No. 20917-**1210**

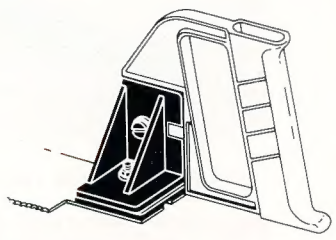


No. 1012 Hand Hacksaw Frame Die-cast aluminum. With 10″ blade. Product No. 20912-**1012**



PVC/ABS Plastic Pipe Hand Designed especially to cut PVC and ABS plastic pipe without binding. Can also do other general cutting of plastic and wood. Cuts on both push and pull strokes. Die-cast aluminum handle, replaceable tempered carbon steel 12″ or 18″ blade.

Product Number	Description
20980-**HSF-180**	**18″**/450mm blade and handle
20985-**HSF-120**	**12″**/300mm blade and handle
20981-**HSB-18**	**18″**/450mm replacement blade
20982-**HSB12**	**12″**/300mm replacement blade



Flush Cutting Blade Adaptor Designed to cut PVC/ABS pipe, two-by-fours, etc., flush with floors and walls. Product No. 20987

No. 928 Handy Hack Cuts flush. Blade reverses. With bi-metal 10″ blade. Product No. 20928-**928**

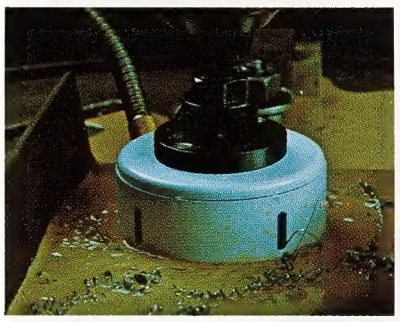
No. 975 Hacksaw Rugged die-cast aluminum. Designed for hard to get at places. Cuts bolts, wire, tubing and plastic. With bi-metal 10″ blade which outlasts up to 10 ordinary blades. Product No. 20975-**975**

Compass Saw Handles For 4″, 10″, 12″, 14″ blades (below).
Product No. 20939-**AHC-1** Aluminum
Product No. 20940-**WHC-2** Wood

Compass Saw Blades Carbon steel. .042″ gage for 4″ length, .047″ gage for 12″ and 14″ length, and .050″ gage for 10″ length. 10 teeth per inch.

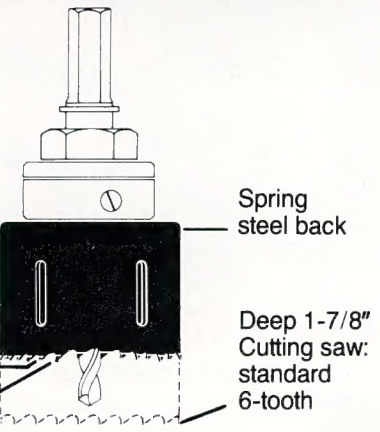
Product No.	Length
20945-**4CS**	**4″**/100mm
20947-**10CS**	**10″**/250mm
20949-**12CS**	**12″**/300mm
20951-**14CS**	**14″**/360mm

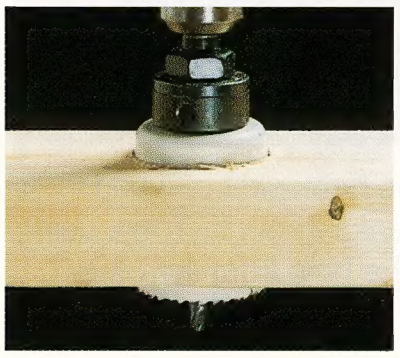
HOLE SAWS & ACCESSORIES



- Shatterproof, bi-metal construction. Vari-Tooth® form gives less vibration, smoother cuts.
- Cuts through stainless steel and other metals, pipe, nail-embedded wood, hardwood floors, plywood and plastics.
- Stays sharp up to 3 times longer, resists heat build-up.

Hole Saw Kits - See Page 8


Spring steel back
Electron-beam welded high-speed steel cutting edge Rc 62-64
Deep 1-7/8" Cutting saw: standard 6-tooth
Regular: 1-1/8" cutting depth
4/6 Vari-Tooth® form

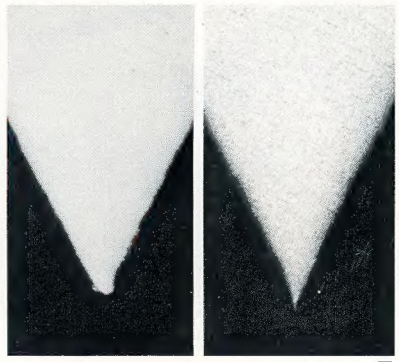


DEEP CUTTING SAW

- Deep cutting hole saws extend cutting depth to 1⅞".
- All deep cutting hole saws have 6 teeth per inch.
- Available in 13 diameters.

HOLE SAWS NOW HAVE SHARPER TOOTH TIPS!

A new heat treating process creates sharper tooth tips for faster, freer cutting. The difference can be seen in these microscopic photographs.

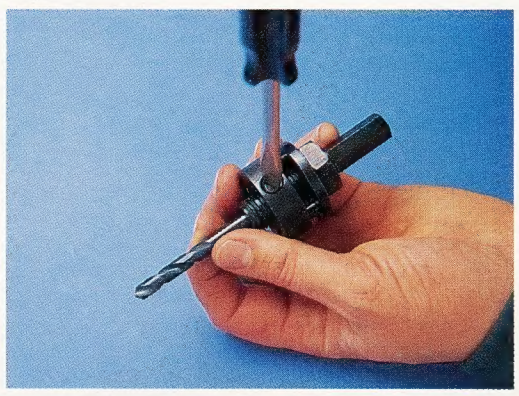


HOLE SAW TIPS

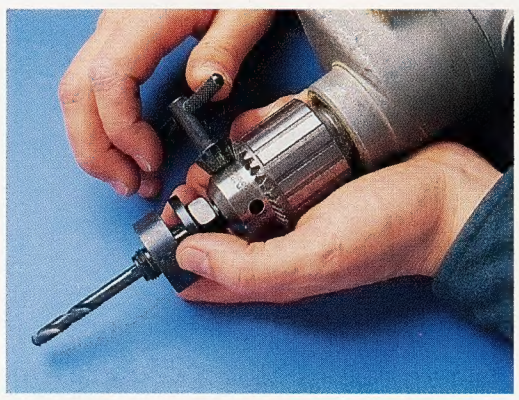
HOW TO GET THE PERFORMANCE YOU WANT.

ASSEMBLY.

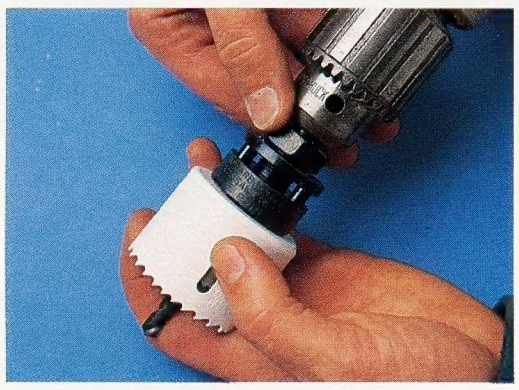
1. Secure the pilot drill in the arbor.



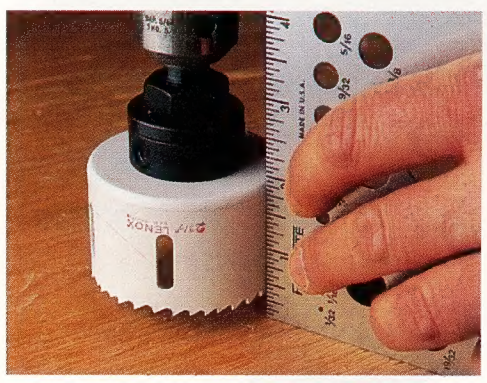
2. Clean your drill or drill press chuck, then tighten the arbor in place. Be sure all three sides of the chuck are holding uniformly. If not, reposition and re-tighten the arbor.



3. Screw the hole saw onto the arbor, making sure the drive pins are engaged.



CUTTING SAFELY AND EFFICIENTLY.



Always enter the workpiece straight - never at an angle - so all teeth contact the work at the same time. Hold the drill firmly to resist the clockwise twisting motion when the hole saw begins to cut.

SPONGE TIP FOR CUTTING STAINLESS STEEL.

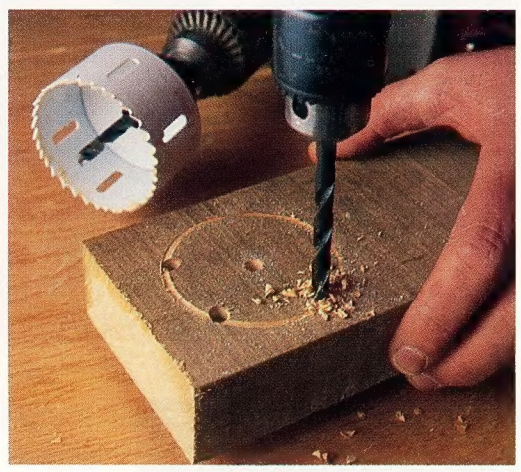
Using a hole saw, punch out a sponge and push the sponge up into the inside of the hole saw. Then soak the sponge with cutting fluid. While cutting, the cutting fluid draws from the sponge, making the hole saw cut easier and last longer.

THE BEST WAY TO CUT LARGE HOLES.

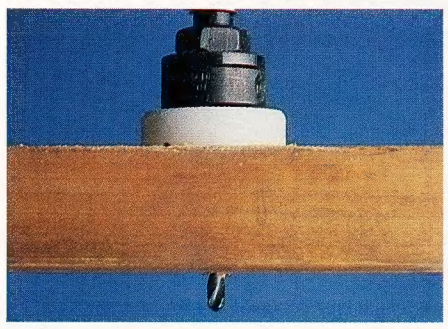
When using a hole saw 3″ or larger on material thicker than ½″, use a torque driving plate to distribute the driving torque evenly.

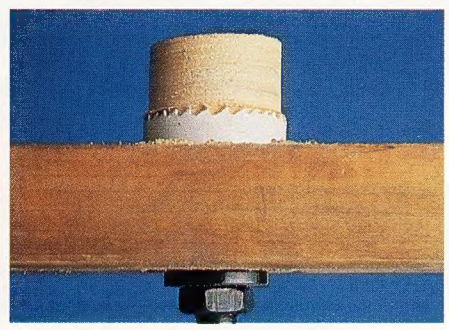
CLEARING THE CHIPS IN TOUGH MATERIALS.

In thick, hard-to-saw materials, use your hole saw to score the work surface, then drill holes inside the groove. This will provide space for chip clearance.



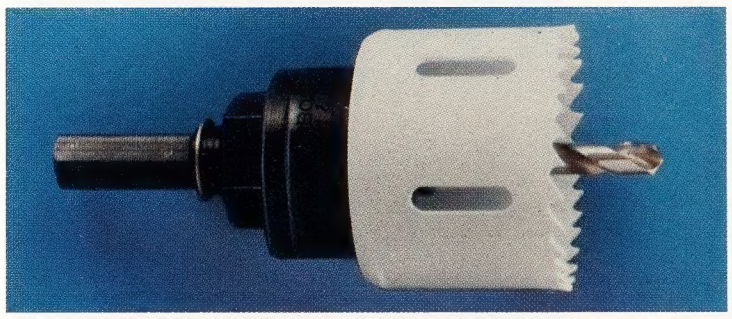
GETTING THAT PROFESSIONAL FINISH.





To prevent splinters or burrs on the back side of wood, stop sawing when the pilot drill breaks through. Then, using the drill as a guide, finish sawing the hole from the other side.

HOLE SAWS



1⅛" Cutting Depth

Order arbors/ accessories separately.

Diameter in.	mm	Boxed Product No.	Use Arbor No.	Pipe Tap in. (mm)	Pipe Entrance in. (mm)
9/16	14	30009-**9L**	1L,4L,5L		
5/8	16	30010-**10L**	1L,4L,5L		
11/16	17	30011-**11L**	1L,4L,5L		
3/4	19	30012-**12L**	1L,4L,5L	**1/2** (13)	**3/8** (10)
13/16	21	30013-**13L**	1L,4L,5L		
7/8	22	30014-**14L**	1L,4L,5L	**3/4** (19)	**1/2** (13)
15/16	24	30015-**15L**	1L,4L,5L		
1	25	30016-**16L**	1L,4L,5L		
1 1/16	27	30017-**17L**	1L,4L,5L		
1 1/8	28	30018-**18L**	1L,4L,5L	**1** (25)	**3/4** (19)
1 3/16	30	30019-**19L**	1L,4L,5L		
1 1/4	32	30020-**20L**	2L or 6L		
1 5/16	33	30021-**21L**	2L or 6L		
1 3/8	35	30022-**22L**	2L or 6L		**1** (25)
1 7/16	37	30023-**23L**	2L or 6L		
1 1/2	38	30024-**24L**	2L or 6L	**1 1/4** (32)	
1 9/16	40	30025-**25L**	2L or 6L		
1 5/8	41	30026-**26L**	2L or 6L		
1 11/16	43	30027-**27L**	2L or 6L		
1 3/4	44	30028-**28L**	2L or 6L	**1 1/2** (38)	**1 1/4** (32)
1 13/16	46	30029-**29L**	2L or 6L		
1 7/8	47	30030-**30L**	2L or 6L		
2	51	30032-**32L**	2L or 6L		**1 1/2** (38)
2 1/16	52	30033-**33L**	2L or 6L		
2 1/8	54	30034-**34L**	2L or 6L		
2 1/4	57	30036-**36L**	2L or 6L	**2** (51)	
2 5/16	59	30037-**37L**†	2L or 6L		
2 3/8	60	30038-**38L**	2L or 6L		
2 1/2	63	30040-**40L**	2L or 6L		**2** (51)
2 9/16	65	30041-**41L**	2L or 6L		
2 5/8	67	30042-**42L**	2L or 6L	**2 1/2** (63)	
2 3/4	70	30044-**44L**	2L or 6L		
2 7/8	73	30046-**46L**	2L or 6L		
3	76	30048-**48L**	2L or 6L		**2 1/2** (63)
3 1/8	79	30050-**50L**	2L or 6L		
3 1/4	83	30052-**52L**	2L or 6L	**3** (76)	
3 3/8	86	30054-**54L**	2L or 6L		
3 1/2	90	30056-**56L**	2L or 6L		
3 5/8	92	30058-**58L**	2L or 6L		**3** (76)
3 3/4	95	30060-**60L**	2L or 6L	**3 1/2** (90)	
3 7/8	98	30062-**62L**†	2L or 6L		
4	100	30064-**64L**	2L or 6L		
4 1/8	105	30066-**66L**	2L or 6L		**3 1/2** (90)
4 1/4	108	30068-**68L**	2L or 6L	**4** (100)	
4 3/8	111	30070-**70L**†	2L or 6L		
4 1/2	115	30072-**72L**	2L or 6L		
4 3/4	121	30076-**76L**	2L or 6L	**4 1/2** (115)	**4** (100)
5	127	30080-**80L**	2L or 6L		
5 1/2	140	30088-**88L**	2L or 6L		
6	152	30096-**96L**	2L or 6L		

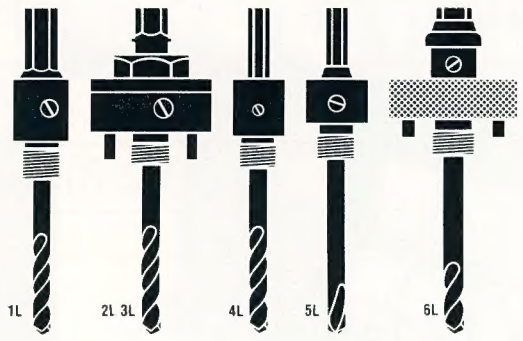
† To be discontinued when stock is depleted.

HOLE SAW KITS - PAGE 8

Deep Cutting Hole Saws

Diameter in.	mm.	Boxed Product No.	Use Arbor No.	Pipe Tap in. (mm)	Pipe Entrance in. (mm)
⅞	22	30414-**14DC**	1L,4L,5L	¾ (19)	½ (13)
1	25	30416-**16DC**	1L,4L,5L		
1⅛	28	30418-**18DC**	1L,4L,5L	**1** (25)	¾ (19)
1¼	32	30420-**20DC**	2L or 6L		
1⅜	35	30422-**22DC**	2L or 6L		**1** (25)
1½	38	30424-**24DC**	2L or 6L	1¼ (32)	
1¾	44	30428-**28DC**	2L or 6L	1½ (38)	1¼ (32)
2	51	30432-**32DC**	2L or 6L		1½ (38)
2¼	57	30436-**36DC**	2L or 6L	**2** (51)	
2½	63	30440-**40DC**	2L or 6L		**2** (51)
3	76	30448-**48DC**	2L or 6L		2½ (63)
3⅜	86	30454-**54DC**	2L or 6L		
4¼	108	30468-**68DC**	2L or 6L		

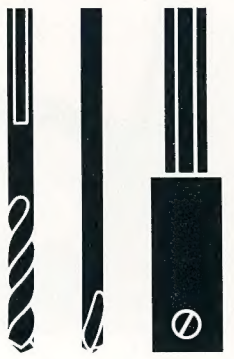
Arbors



Boxed Product No.	Fits Hole Saws	Shank Type	Chuck Size in.	Chuck Size mm
30001-**1L**	9L-19L	Hex	½	13
30002-**2L**	20L-96L	Hex	½	13
30003-**3L**	20L-96L	Hex	¾	19
30004-**4L**	9L-19L	Round	¼	6
30005-**5L**	9L-19L	Hex	⅜	10
30006-**6L**	20L-96L	Hex	⅜	10

Note: 2L and 3L arbors fit the same hole saws. They differ in shank size only: **½"**/13mm and **¾"**/19mm.

Accessories



Pilot Drills ¼"/6mm dia. No. 30850-**4321** fits 1L, 2L, 3L, 4L.

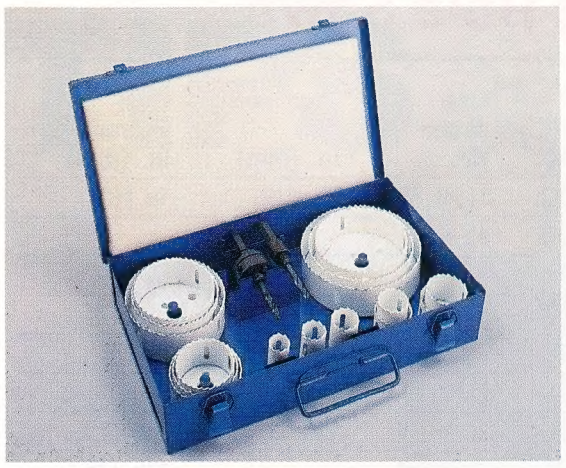
No. 30851-**56PD** fits 5L, 6L.

Extensions No. 30847 **12"**/300mm; No. 30846 **5½"**/140mm; No. 30848 **18"**/450mm. All three fit 1L, 2L.

Torque Driving Plates No. 30840-**120L** fits 48L-66L. No. 30841-**121L** fits 68L-96L.

Arbor Adaptor No. 30857. Adapts 1L, 4L & 5L arbors to saws **1¼"**/32mm-**6"**/152mm.

HOLE SAW KITS



INDUSTRIAL MAINTENANCE
NO. 30823-**1900L**

Sixteen sizes handle just about all installation, maintenance and repair jobs. One each hole saws ¾", ⅞", 1", 1⅛", 1⅜", 1½", 1¾", 2", 2¼", 2½", 3", 3¼", 3⅝", 3¾", 4⅛", 4¾". One each arbors 1L, 2L. Three spare pilot drills. Metal carrying case.

SUPER ELECTRICIAN
NO. 30822-**1400L**

Ten sizes needed to bring pipe and conduit through floors, ceilings, partitions and into junction boxes. One each hole saws ⅞", 1⅛", 1⅜", 1¾", 2", 2½", 3", 3⅝", 4⅛", 4¾". One each arbors 1L, 2L, 4L. Three spare pilot drills. Metal carrying case.

REFRIGERATION NO. 30830-**600R**

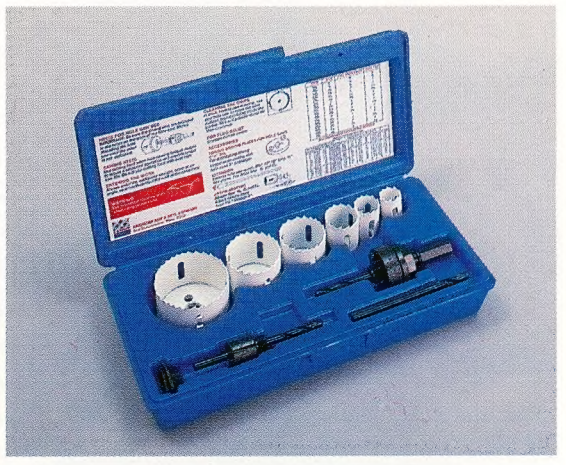
Six sizes preferred by refrigeration professionals. One each hole saws ⅝", ⅞", 1⅛", 1⅜", 1⅝", 2⅜". One each arbors 5L, 6L. One spare pilot drill. Plastic case.

DELUXE NO. 30820-**1200L**

Twelve popular sizes. One each hole saws ⅝", ¾", ⅞", 1", 1⅛", 1¼", 1⅜" 1½", 1¾", 2", 2½", 3". One each arbors 1L, 2L. Three spare pilot drills. Plastic case.

ELECTRICIAN NO. 30821-**600L**

Six sizes most frequently used for pipe and conduit entrance. One each hole saws ⅞", 1⅛", 1⅜", 1¾", 2", 2½". One each arbors 1L, 2L. One spare pilot drill. Plastic case.

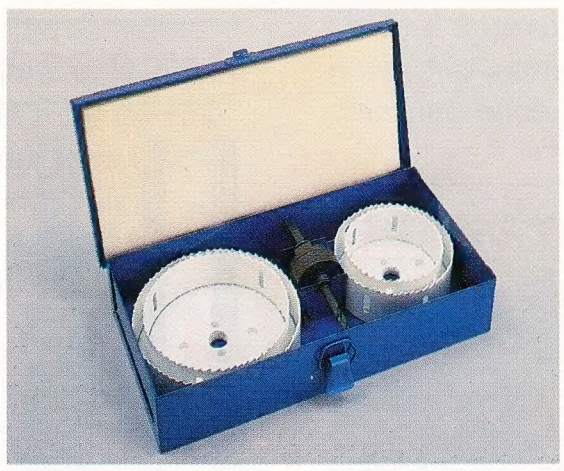


PLUMBER NO. 30808-**600P**

Six sizes most commonly used for pipe tap and entrance. One each hole saws ¾", ⅞", 1⅛", 1½", 1¾", 2¼". One each arbors 2L, 4L. One spare pilot drill. One arbor adapter. Plastic case.

LOCKSMITH NO. 30831-**600K**

Six sizes preferred by locksmiths. One each hole saws ⅞", 1", 1¼", 1½", 1¾", 2⅛". One each arbors 2L, 4L. One spare pilot drill. One arbor adapter. Also available as No. 30832-600KA with 1⅜" hole saw in place of 1½". Plastic case.



SPECIAL ELECTRICIAN
NO. 30828-**400L**

Four sizes used on large pipe and conduit entrance. One each hole saws 3", 3⅝", 4⅛", 4¾". One arbor 2L. Metal case.

AUTOMOTIVE NO. 30805-**500A**

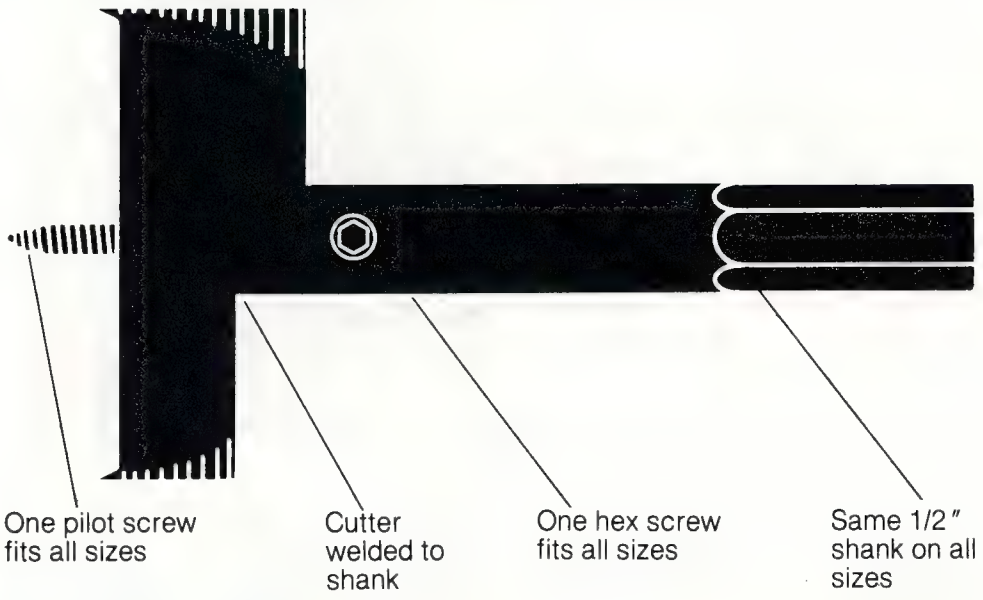
Five sizes used to install air conditioner hoses, door locks, sun roofs, antennas, etc. One each hole saws ¾", ⅞", 1", 1⅛", 1¼". One arbor 5L. One arbor adapter. Plastic case.

WOOD BORING BITS

BENEFITS

- One-piece construction prevents separation when backing out.
- Easier to order: no need to specify sizes of cutters, shanks, pilot screws, set screws.
- Easier to resharpen: only two cutters.
- Self-feeding. A tough tool that delivers professional cutting performance.

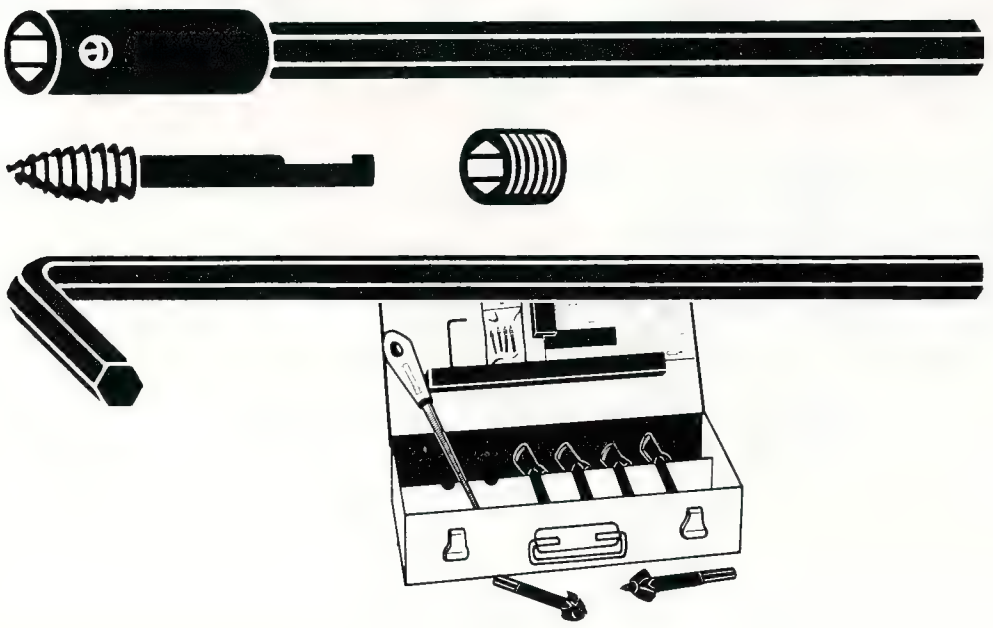
Features



Specifications

Product No.	Cutter Dia. & Pipe Entrance In. (mm)	Plastic Pipe, Iron Pipe, Rigid Conduit In. (mm)	Copper Tubing & Thin Wall Conduit In. (mm)	Soil Pipe In. (mm)
32100-**WB100**	1 (25)	½ (13)	½-¾ (13-19)	—
32112-**WB112**	1⅛ (29)	½ (13)	—	—
32125-**WB125**	1¼ (32)	¾ (19)	—	—
32137-**WB137**	1⅜ (35)	¾-1 (19-25)	1 (25)	—
32150-**WB150**	1½ (38)	1 (25)	—	—
32175-**WB175**	1¾ (44)	1-1¼ (25-32)	1¼ (32)	—
32200-**WB200**	2 (51)	—	1½ (38)	—
32212-**WB212**	2⅛ (54)	1½ (38)	—	—
32225-**WB225**	2¼ (57)	1½ (38)	—	—
32256-**WB256**	2 9/16 (65)	2 (51)	2 (51)	2 (51)
32300-**WB300**	3 (76)	—	2½ (64)	—
32362-**WB362**	3⅝ (92)	3 (76)	3 (76)	3 (76)
32462-**WB462**	4⅝ (118)	4 (102)	4 (102)	4 (102)

Accessories



Shank Extensions **5½″**/140mm No. 30846. **12″**/300mm No. 30847. **18″**/450mm No. 30848. All have round sleeve to fit **½″**/13mm hex shank. With single set screw to hold in place.

Extra Pilot Screw No. 32900

Extra Set Screw No. 32989. Both fit all sizes.

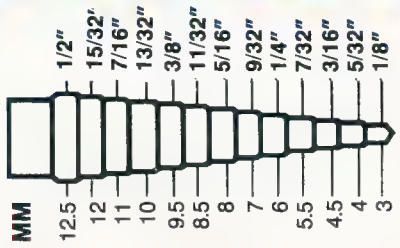
Hex Wrench Set No. 32985. Contains one **⅛″**/3mm Hex Wrench, one **5/32″**/4mm Hex Wrench.

Kit No. 32500. Contains 1 ea. Bits: 1⅛″, 1¼″, 1½″, 1¾″, 2⅛″, 2 9/16″. 1 ea. Extensions: 5½″, 12″. 1 Hex Wrench Set. 1 pkg. of 5 Pilot Screws. 1 No. 50026 Slim Taper File with handle. Packed in metal case.

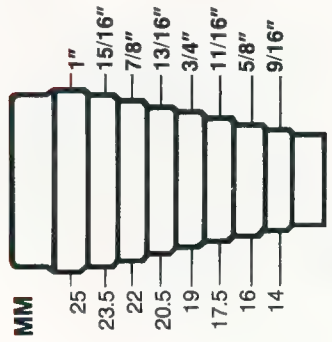
VARI-BIT®

- Lenox Vari-Bit® Drill Bits eliminate the need for specific sized bits for ⅛″ to 1⅛″ diameter hole sizes.
- High speed steel double flute design cuts burr-free holes faster; cuts twice as fast and lasts twice as long as any competitive bit.
- Three-sided shank won't slip in chuck.
- True drill point starts fast, requires no center punching.
- Drills metal (steel, brass, copper, aluminum), wood and various plastics.

VB1

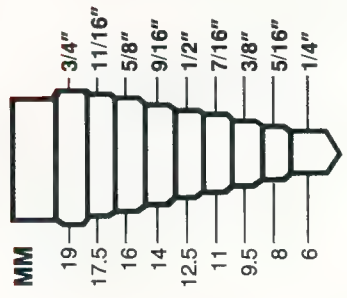


VB2

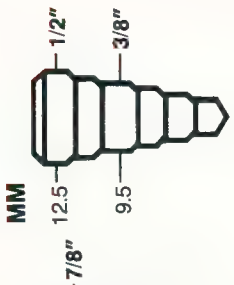


1/2"/12.5mm PILOT HOLE NEEDED TO START

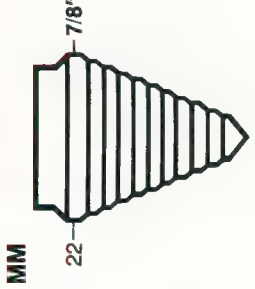
VB3



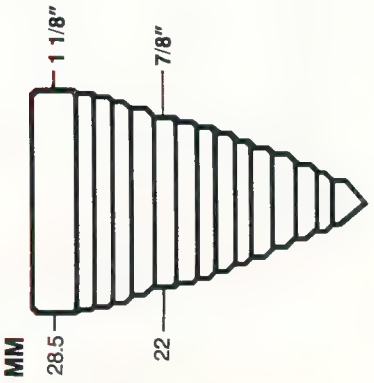
VB6



VB7



VB11



VARI-BIT® KITS

Product No. 30890-**VBKM**
Metal kit contains one each of the following: VB1, VB2, VB3, VB7 plus instruction sheet.

Product No. 30885-**VBKV**
Vinyl Pouch contains one each of the following: VB1, VB2, VB3, VB7 plus instruction sheet.

Product No. 30889-**889**
Metal kit contains one each of the following: VB1, VB2, VB3 plus instruction sheet.

Product No. 30920-**VBKMA-6**
Metal kit contains one each of the following: VB1, VB2, VB3, VB6, VB7, VB11 plus instruction sheet.

Product No. 30922-**VBKME-3**
Metal kit contains one each of the following: VB3, VB6, VB11 plus instruction sheet.

ORDERING GUIDE

PRODUCT NO.	LENOX CODE	NO. OF HOLE SIZES PER BIT	SIZE RANGE (HOLE DIAMETER)	PILOT HOLE REQUIRED	ELECTRIC DRILL SIZE
30881	VB1	13	⅛″ to ½″	No.	¼″ & larger
30882	VB2	8	9/16″ to 1″	Yes. ½″ or larger	⅜″ & larger
30883	VB3	9	¼″ to ¾″	No.	⅜″ & larger
30886	VB6	2	⅜″ & ½″	No.	¼″ & larger
30887	VB7	1	⅞″	No.	⅜″ & larger
30888	VB11	2	⅞″ & 1⅛″	No.	⅜″ & larger

U.S. PATENT NO. 4582458

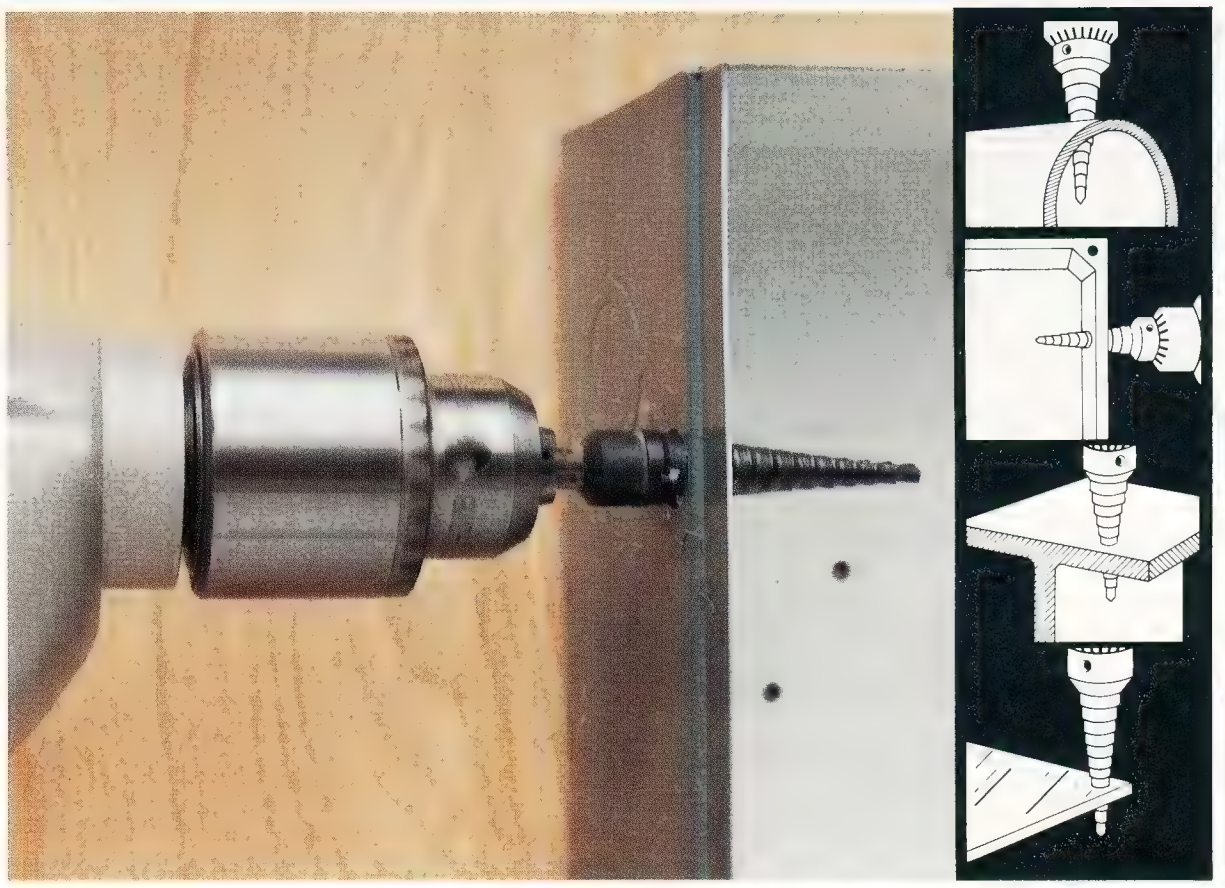
CAUTION: ALWAYS WEAR SAFETY GLASSES WHEN OPERATING ALL POWER TOOLS.

VARI-BIT® COMPARISON CHART

Lenox Vari-Bit®	Number of Hole Sizes	Size Range	Electric Drill Size	Uni-Bit®	Klein Uni-Bit®
VB1 30881	13	1/8"-1/2"	1/4"	1	1-59001
VB2 30882	8	9/16"-1"	3/8"	20	2-59002
VB3 30883	9	1/4"-3/4"	3/8"	3	3-59003
VB6 30886	2	3/8" & 1/2"	1/4"	10, 12*	7-59007
VB7 30887	1	7/8"	3/8"	11	8-59008
VB11 30888	2	7/8" & 1 1/8"	3/8"	13**	11-590011

* Lenox Vari-Bit® #6 combines Uni-Bit® #10 & #12.

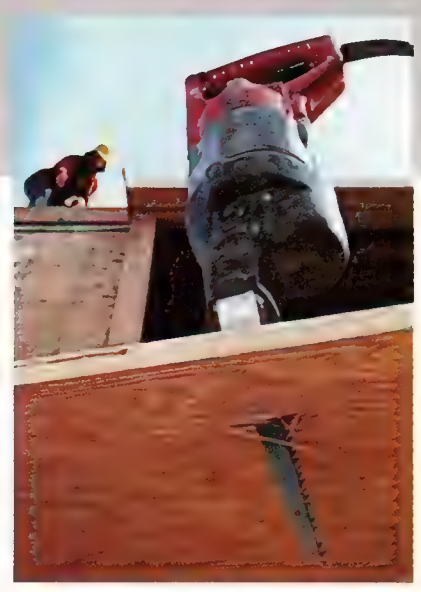
** Uni-Bit® #13 has 1 1/8" step only. Vari-Bit® has both 7/8" & 1 1/8".



HACKMASTER®R

RECIPROCATING BLADES

- Bi-metal construction provides shatterproof cutting even on the toughest jobs.
- Made for the professional, these blades cut stainless, reinforcing rod, conduit, nail-embedded wood, plaster... almost anything.
- Outperforms ordinary carbon and high-speed steel blades.
- Quality blades that fit most U.S. & foreign saws.



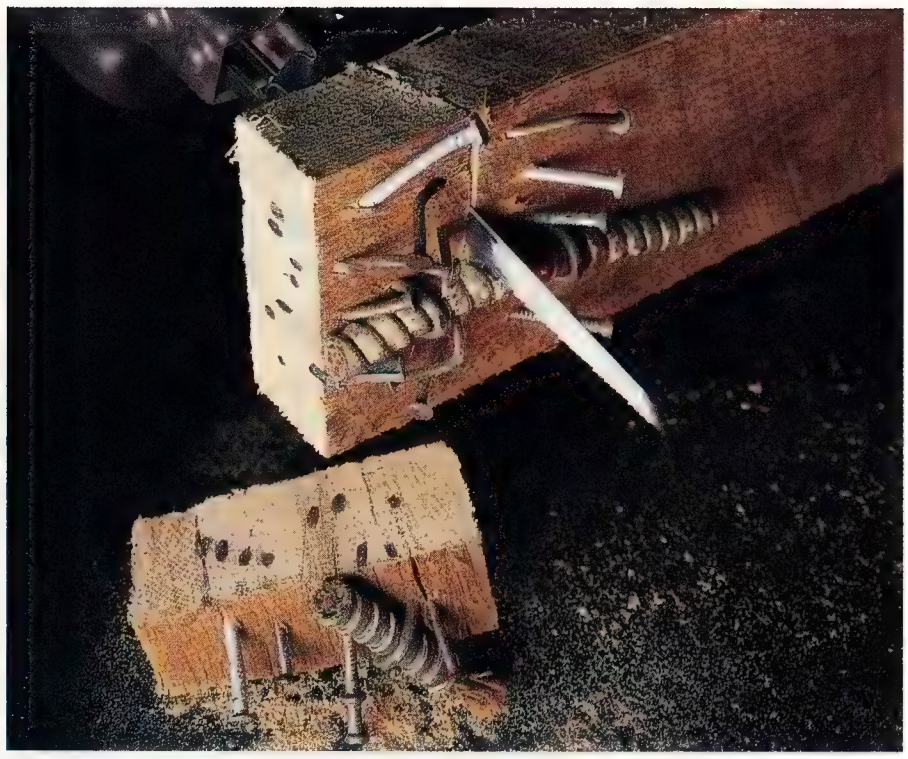
HACKMASTER® J

JIG/SABER BLADES

- Same rugged bi-metal construction as Hackmaster® R blades.
- Shatterproof cutting of stainless, sheet metal, laminated counter tops, nail-embedded wood, etc.
- Professional quality blades that take on the toughest jobs.
- Blades are capable of fitting most foreign & domestic saws.

JIG/SABER & RECIP. TIPS

WITH THE RIGHT BLADE AND THE RIGHT TECHNIQUE, YOU CAN CUT A WIDE VARIETY OF MATERIALS CLEANLY AND EASILY.



PUT THE FINISH SIDE DOWN.

Jig/saber saws and reciprocating saws cut on the pull stroke (when the blade is moving toward the handle). Therefore, to avoid splintering, make sure the finish side of the material to be cut is facing down or away from the saw.

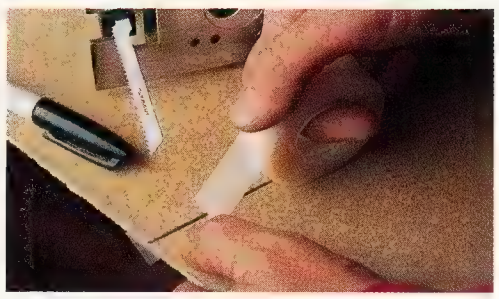
MAKING A SAFE, EFFECTIVE PLUNGE CUT.

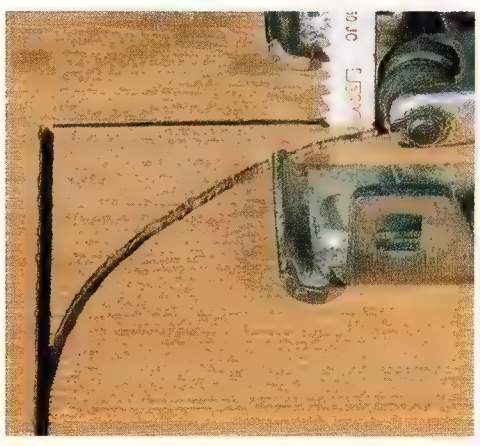
For reciprocating saws, rest the shoe with the blade angled above the work-piece. Gradually close the angle until the blade enters the work. As soon as you have made a cut slightly longer than the width of your blade, you can begin sawing normally.

For jig/saber saws, you can begin normal sawing as soon as the shoe has touched down flat on the work.

NON-SPLINTER SAWING OF THIN WOOD.

A time-proven method to avoid splintering is to cover the cutting line with transparent tape. This technique is an excellent way to avoid the chipping that can occur on thin wood.



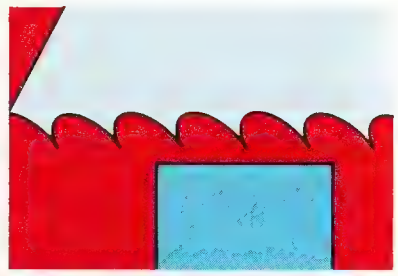


SAWING A SHARP INSIDE CORNER.

When you come to a corner, back your saw up and cut on a curve to the next guideline, and cut along that line. Then, saw back in the opposite direction to remove the "triangle" of waste in the corner.

STOPPING SAW BOUNCE.

If a saw tends to snag or bounce when cutting thin material, switch to a finer-tooth blade so that there are always at least three teeth in the cut.



SAWING THIN MATERIALS.

You can prevent bending or crinkling of thin sheet metal and plastics by sandwiching them between scraps of wood. Draw the pattern to be cut on the top piece of sandwich material, and then saw in the normal manner. A similar method can be used when sawing wood panels, and other thin woods, which could otherwise crack from the weight of the saw.

SAFETY.

The more skilled you become, the more likely you are to take shortcuts. So, when you form habits that save time, form companion habits that keep you safe.

1. Stop when you're tired—fatigue is a major cause of accidents.

2. Disconnect electricity before checking or adjusting power saw.

3. Frequently check for worn cords and plugs.

4. Never stand on a wet surface to use a power tool.

5. Keep the power cord away from the saw.

6. Never wear loose clothing that could get caught in a blade.

7. Wear face shield, goggles, earplugs, and work gloves when your work demands them.

ORDERING GUIDE Be sure to give Product Number.

HACKMASTER® R (Reciprocating)

5 per Vinyl Pouch
Skin Packed: 1 per card/5 cards per pack
Bulk Packed: 50 per box

Assortment:
One ea. 414R, 418R, 614R, 618R, 656R. Vinyl Pouch.
Product No. 20502-**546A**

CROSS REFERENCE NUMBERS
Competitive blades may vary from our specifications

PRODUCT NUMBER			LENGTH x WIDTH x THICKNESS		TEETH PER INCH	SHAPE	RECOMMENDED USE	B&D	RULE IND.	MALCO	MILWAUKEE	PORTER CABLE**	STERLING	VT. AMER.
VINYL POUCH†	SKIN PACK†	BULK PACK†	INCHES	MM										
20572-**656R**	20573-**S656R**	20543-**B656R**	**6 x ¾ x .050**	150 x 20 x 1.3	6			40098 †40310	WC-608 †ULB-608	4-KH7 †4-KH8 4-S6, 4-S8	†3031 1031	12400 †12455	6-607	88000
20585-**156R**	20586-**S156R**	20546-**B156R**	**12 x ¾ x .050**	300 x 20 x 1.3	6		Rough work in wood*	40099 40101	WC-1208 WCD-1206 †ULB-1208	12-KH7 †12-KH8 12-S6	1032 1042	12403 †12456	6-1207	
20582-**956R**			**9 x ¾ x .050**	225 x 20 x 1.3	6					8KH7	1033 3036			
20556-**676RC**			**6 x 7/16 x .050**	150 x 11 x 1.3	6		Wood contours	40109	WCD-606	†4DL6 1041	†3041 1041	12409 †12458		
20560-**606R**			**6 x ¾ x .035**	150 x 20 x .9	6		Wood*, all composition material	40100 †40310	W-406	45T10 4-HD6 †4GT7	1062 1012 1022	12408 12461	7-306	87945
20575-**634R**			**6 x ¾ x .035**	150 x 20 x .9	4		Nail free woods	40107	ZC203	6-T3	1002			
20562-**610R**		20539-**B610R**	**6 x ¾ x .035**	150 x 20 x .9	10		Wood*, compositions, plastic, cast aluminum & non-ferrous metals	40103	†ULB-310 TB-410 HDM310	4-HD8 4-HD10 5-HD8 5-HD10 †4GT10	1014 1024 1064	12411 12415 12463 †12452	7-610 8-612/8 8-610	87975 123
20580-**810R**	20581-**S810R**	20544-**B810R**	**8 x ¾ x .035**	200 x 20 x .9	10/14		Wood*, compositions, plastic, cast aluminum, light-non ferrous metals		HDM-410	†8MC10	2175			
20520-**314RC**			**3 x ¼ x .032**	75 x 6 x .8	14		Irregular contours	40126	HDMC-214	3-HS14 †2-MS14	1101 1162	12445	3-214 4-314	88180
20583-**110R**			**12 x ¾ x .050**	300 x 20 x 1.3	10/14		All woods*, plastic, & cast aluminum							
20550-**414R**			**4 x ¾ x .035**	100 x 20 x .9	14			40112 †40312	†ULB-214 HDM-214 FR-214	†3-TF14 3-MC14	1510 1172 †1181	†12447	1-414	88110 106
20564-**614R**	20565-**S614R**	20540-**B614R**	**6 x ¾ x .035**	150 x 20 x .9	14		Heavy gauge metal, rubber & fiber	40113 †40315	†ULB-314 FR-314 HDM-314	4-MC14 †4-TF14	1540 1179 †1182	12421 †12451		88155
20552-**418R**	20553-**S418R**		**4 x ¾ x .035**	100 x 20 x .9	18		Heavy gauge metal, conduit & tubing	†40313 40105 40115	†ULB-218 HDM-218 FR-218	2-MC18 3-MC18 †3-TF18	1520 1065 1174 †1183	12418 †12448	7-318	88120 87925 107
20566-**618R**	20567-**S618R**	20541-**B618R**	**6 x ¾ x .035**	150 x 20 x .9	18			†40316 40116	†ULB-318 HDM-318 FR-318	4-MC18 †4TF18	1550 1066 †1184 2170	12427 †12454	7-618 1-618	88165 87935 110
20521-**318RC**	20522-**S318RC**		**3 x ¼ x .032**	75 x 6 x .8	18		Contours—metals under ⅛"	40119	MC-218	†2-MS18	1102	12436	3-218	88190 101
20554-**424R**			**4 x ¾ x .035**	100 x 20 x .9	24		Metal & galvanized pipe 18 gauge & under	†40314 40117	†ULB-224 HDM-224	2-MC24 2-MF24 †3-MC24 3-TF24	1530 1067 1176 †1185	12424 †12453	1-224 1-424	88130 88140 108
20568-**624R**	20569-**S624R**	20542-**B624R**	**6 x ¾ x .035**	150 x 20 x .9	24			40125	HDM-324 †ULB-324	†4-MC24	2171 1068	12433	1-624	88170 111
20570-**636RP**	20571-**S636RP**		**6 x ¾ x .035**	150 x 20 x .9	6		Plaster, plaster board	40127	P-405	†4-P6	1052	12469	12-608	

* Including nail-embedded wood ** Reverse blade holder on Porter Cable Tiger Saw for Hackmaster® R † Bi-metal

HACKMASTER® J (Jig/Saber)

5 per Vinyl Pouch
Skin Packed: 1 per card/5 cards per pack

Assortment:
One ea. 314J, 318J, 324J, 386J, 380J.
Product No. 20601-**533A**

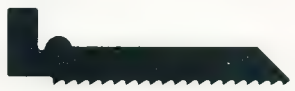
Assortment:
One ea. 386J, 318J, 350JC.
Product No. 20602-**333A**

CROSS REFERENCE NUMBERS

PRODUCT NUMBER		LENGTH x WIDTH x THICKNESS		TEETH PER INCH	SHAPE	RECOMMENDED USE	B&D	RULE IND.	MALCO	MILWAUKEE	PORTER CABLE	SKIL	STANLEY	TROJAN	VT. AMER.
VINYL POUCH†	SKIN PACK†	INCHES	MM												
20620-**386J**	20670-**S386J**	**3½ x ⅜ x .050**	90 x 10 x 1.3	6		Roughing wood, fiberboard	U-1350 54368 39756	J1	206	0500 0520 0420	12506 12503	22652		S-7	10D 12D 51D †62
20622-**380J**	20672-**S380J**	**3½ x ⅜ x .050**	90 x 10 x 1.3	10		Smoother finish of wood*, compositions, plastic	U-1351 54369 31004	J2	110	0540 0560	12515 12510	22650	15-171	S-10	11D 13D 52D †63
20690-**350JC**	20691-**S350JC**	**3½ x ¼ x .050**	90 x 6 x 1.3	10		Wood: scrolls & contours	U-1368 39754 49492	J4 J6	510 610	0620	12502 12508	22649 24089 22650	15-155	S-S S-F	19D 16D
20628-**356JF**	20629-**S356JF**	**3½ x ⅛ x .050**	90 x 30 x 1.3	6/10		Flush cut wood	58149	J3		0300	12511			S-FL	21D
20638-**340JV**	20688-**S340JV**	**3½ x ⅜ x .035**	90 x 10 x .9	10/14		Same as 380J plus steel, non-ferrous metals ⅛" up						22645	15-164		
20610-**314J**	20660-**S314J**	**3 x ⅜ x .035**	75 x 10 x .9	14		Steel & non-ferrous metals ⅛" up, plastic, asbestos, hard rubber, fiber	49490 U-1354	J8 J12	814	0100 0101	12516	22085	15-164	S-14	15D 24D 30D 53D †74
20611-**318J**	20661-**S318J**	**3 x ⅜ x .035**	75 x 10 x .9	18		Metal 18 gauge & under	31020	J9	818	0120	12517	24086	15-167		25D †75
20612-**324J**	20662-**S324J**	**3 x ⅜ x .035**	75 x 10 x .9	24		Metal 18 gauge & under	31021 75-157	J10	824	0140	12518	24087	15-168	S-24	26D 55D †76

* Including nail embedded wood † Bi-Metal

HACKMASTER® B (Bayonet)



5 per Vinyl Pouch
Skin Packed: 1 per card/5 cards per pack

PRODUCT NUMBER		L x W x T		TEETH PER INCH	CROSS REF. NUMBERS			
VINYL POUCH†	SKIN PACK†	INCHES	MM		PORT. CABLE	CAPE-WELL	STERL-ING	RULE IND.
20725-**336B**	20775-**S336B**	**3 x ⅜ x .032**	75 x 10 x .8	6	12377 12306			
20727-**330B**	20777-**S330B**	**3 x ⅜ x .032**	75 x 10 x .8	10	12324 12379 12376 12366		DM-80	R-55
20715-**130B**	20765-**S130B**	**1¾ x ¼ x .032**	45 x 6 x .8	10		70770		
20728-**334B**	20778-**S334B**	**3 x ⅜ x .032**	75 x 10 x .8	14	12330 †12346 12336	70720 70910	DM-82 DF-88	R-56
20716-**134B**	20766-**S134B**	**1¾ x ¼ x .032**	45 x 6 x .8	14	†12347 12336	70700 70900	DM-84 DF-89	R-57
20730-**338B**	20780-**S338B**	**3 x ⅜ x .032**	75 x 10 x .8	18	12342 †12349 12355	70730	DM-83	R-58
20717-**138B**	20767-**S138B**	**1¾ x ¼ x .032**	45 x 6 x .8	18			DM-85	R-60
20718-**124B**	20768-**S124B**	**1¾ x ¼ x .032**	45 x 6 x .8	24	12354 †12350	70710	DM-85	R-60

† Bi-metal

HACKMASTER RAPIER®

5 per Vinyl Pouch
Assortment: One ea. 314S, 324S, 410S. Product No. 20863-**863A**

PRODUCT NUMBER†	L x W x T		TEETH PER INCH	BOSCH	STERLING
	INCHES	MM			
20802-**406S**	**4 x ⅜ x .050**	100 x 10 x 1.3	6	T101D T111C T144D T244D	
20804-**410S**	**4 x ⅜ x .050**	100 x 10 x 1.3	10	T101B T127D T227D	JM-61 JM-60
20822-**406D††**	**3⅞ x 5/16 x .035**	100 x 8 x .9	6	T1D T11C T44D T27D	
20824-**410D††**	**3⅞ x 5/16 x .035**	100 x 8 x .9	10	T1B T1C T44C	
20805-**314S**	**3 x ⅜ x .035**	75 x 10 x .9	14	T119B T118B	JM-63
20825-**314D††**	**3½ x 5/16 x .035**	90 x 8 x .9	14	T19B T1A T18B	
20806-**318S**	**3 x ⅜ x .035**	75 x 10 x .9	18	T119A T118A T218A	JM-65 JM-64
20807-**324S**	**3 x ⅜ x .035**	75 x 10 x .9	24	T118G	JM-67
20827-**324D††**	**3½ x 5/16 x .035**	90 x 8 x .9	24	T19A T18A T18G	

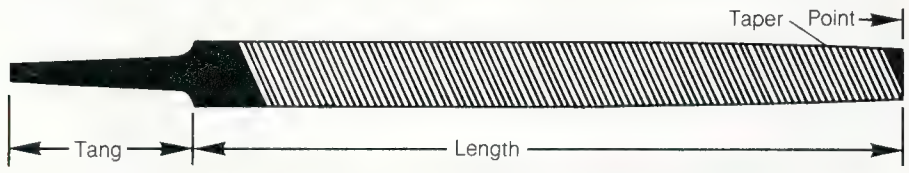
† Bi-metal †† To be discontinued when stock is depleted.

FILES

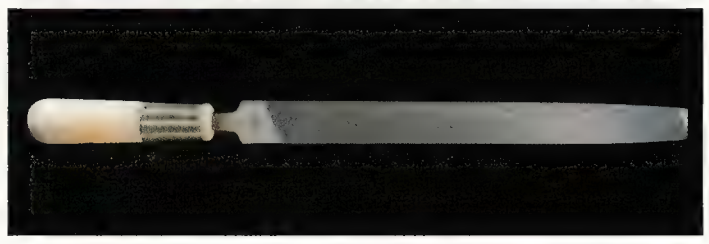
BENEFITS

- Many different American pattern single and double cut files, rasps and curved tooth.
- Wide range of sizes, plus bastard, second cut or smooth.
- Outstanding quality in the right shape, size and construction to meet any need.

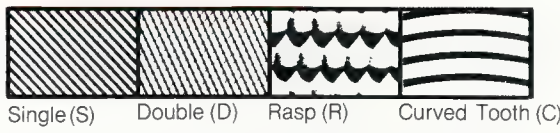
Features



Manufactured of high carbon steel to exacting Lenox quality standards.



STANDARD CUTS



Single: One set of parallel rows of teeth.
Double: Two sets of parallel rows of teeth.
Rasp: Many short, separate teeth.
Curved Tooth: Teeth curving across file.

COARSENESS

Bastard: ..... Coarse
Second Cut: .....Medium
Smooth: .....Fine

Aluminum Flat A Sides D, edges S. Soft steels. 6 8 10 12″

Aluminum Half Round A Sides D. Soft steels. 6 8 10 12″

Auger Bit One end sides only S, other end edges only S. 7″

Cantsaw All sides S. For buck and crosscut saw teeth, and circular saw teeth under 60° angle. 6 8 10″

Chain Saw Round S. Sm. 1/8 5/32 3/16 7/32 1/4 5/16″ *

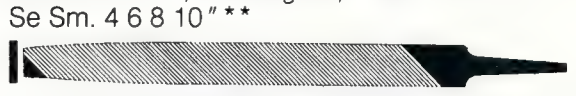
Crosscut Great American S incl. thin edge. 8 10″

Flat Sides D, edges S. Ba Se Sm. 4 6 8 10 12 14″ **

Half Round Sides D. Ba Se Sm. 4 6 8 10 12 14″ **

Home & Garden Sides & edges D. 8″

Knife Sides D, thin edge S, uncut back. Ba Se Sm. 4 6 8 10″ **



Long Angle Lathe Sides S, edges safe. 10 12 14″

Master-Cut S with crossing set & chip breakers. 8 10 12 14″

Mill S. Ba Se Sm. 4 6 8 10 12 14″ **

Mill 2 Round Edges Sides S, edges rounded. Ba only. 8 10″

Round Slightly tapered. Ba Se Sm. 4 6 8 10 12 14″ **

Square D. Ba Se Sm. 4 6 8 10 12″ **

Taper Regular S. Edges set & cut. Regular 6 8 10″. Slim 4 6 7 8 10″. Extra Slim 4 6 7 8″. Double Extra Slim 6 7 8″

Taper Double Cut D. Slim Double Cut 6″. Extra Slim Double Cut 6″. Double Extra Slim Double Cut 6 7″

Three Square D. Ba Se Sm. Fairly sharp corners slightly set & cut. 6 8 10″ **

Tungsten Point 5″

Two Way Handy One side D, other S. One edge S, other safe. 8 10″

Warding Sides D, edges S. Ba Se Sm. Very thin. 4 6 8 10″ **

Rasps

Cabinet Half Round Edges S. 10″

Four-in-Hand (Shoe) Rasp and double cut teeth on both sides. Ba. 8 10″

Wood Flat Sides Ba, edges S. 10″

Wood Half Round Sides Ba, edges S. 10 12″

Curved Tooth

Flat Babbitt Both sides standard cut. 14″

Flat Rigid (w/Tang)-Like Flat Babbitt but finer. 8 10 12″

Flexible Both sides standard cut. Use with File Holder No. 25. 14″

Half Round Both sides standard cut. 8 12″

Super-Cut Both sides standard cut, off-center milled. 8 10 12″

File Holder No. 25 For Flexible Curved Tooth.

Wirebound Handles 5-1/2 4-7/8 4-1/2 3-7/8 3-1/2″

Plastic File Handle Reusable handle with 4 inserts making handle adaptable for files 4″ to 14″.

File Card 10″

File Brush Combines card & brush. 10″

Machinist Scraper 3 square, hollow ground. 3-1/4″

*See Price List for lengths. **Price List gives size/coarseness combinations available. Files are available in U.S.A. only.

BAND & POWER HACKSAW BLADES

ELECTRON WELD bi-metal. Finest general purpose blade you can buy. Vari-Tooth® multi-angle, multi-size teeth reduce vibration and noise, prolong blade life. Cuts toughest materials, even stainless steel.

WIDTH x THICKNESS IN.	MM	TEETH PER INCH
½ x .025	12.7 x .64	8/12, 10/14
⅝ x .035	16 x .90	10/14
¾ x .035	19 x .90	4/6, 5/8, 6/10, 8/12, 10/14

NEO-TYPE® carbon. The all-purpose, low cost blade for cutting milder materials like copper, brass, aluminum, mild steel, plastic. Takes extra tensioning, cuts straight, resists breakage.

WIDTH x THICKNESS IN.	MM	TEETH PER INCH
¼ x .025	6.4 x .64	4, 6, 8, 10, 14, 18
⅜ x .025	9.5 x .64	3, 4, 6, 8, 10, 14, 18
½ x .025	12.7 x .64	4, 6, 10, 14, 18
⅝ x .032	16 x .80	4, 8, 10, 14, 18
¾ x .032	19 x .80	6, 8, 10, 12, 14

4'6"-11'6"/1372mm-3505mm welded to length.
Electron Weld one blade per box. Neo-Type® ten blades per box.

TOOTH SELECTION GUIDE

For general purpose sawing, use 14 tooth or 10/14 Vari-Tooth.

MATERIAL	THICKNESS UP TO 3/32"/2.4mm	1/8-3/16" 3.2-4.8mm	1/4-1/2" 6.3-13mm	1/2-1" 13-25mm	1-3" 25-76mm
Aluminum	—	—	14,10/14VT	10,8/12VT	6
Angle Iron	24	18	14,10/14VT	10,8/12VT	—
Brass	24	18	14,10/14VT	10,8/12VT	6
Bronze	24	18	14,10/14VT	10,8/12VT	6
Cast Iron	—	—	14,10/14VT	10,8/12VT	6
Copper	24	18	14,10/14VT	10,8/12VT	—
Electric Cable	—	—	14,10/14VT	—	—
Galv. Pipe	24	18	14,10/14VT	10,8/12VT	—
Magnesium	—	—	—	10,8/12VT	6
Mild Steel	24	18	14,10/14VT	10,8/12VT	6
Thin Wall Tubing	18	18	—	—	—
Stainless, Chrome Tungsten Steels	24	18	14,10/14VT	10,8/12VT	6
Wood	—	—	—	—	6

HACKMASTER® POWER HACKS

A totally new concept in power hack sawing! You run this blade faster and with less feed pressure. The only power hack with variable pitch teeth. VTP blades have positive rake angle for cutting larger solids, heavy tubing. Shatterproof.

PRODUCT NO.	LENGTH x WIDTH x THICKNESS IN.	MM	TEETH PER INCH
22106-**250HV**	**12 x 1 x .050**	300 x 29 x 1.3	6/10
22114-**450HV**	**14 x 1 x .050**	355 x 29 x 1.3	6/10
22222-**466VTP**	**14 x 1¼ x .062**	355 x 32 x 1.6	4/6
22123-**460HV**	**14 x 1¼ x .062**	355 x 32 x 1.6	6/10
22227-**476VTP**	**14 x 1½ x .075**	355 x 38 x 1.9	4/6
22147-**760HV**	**17 x 1¼ x .062**	432 x 32 x 1.6	6/10
22250-**866VTP**	**18 x 1¼ x .062**	457 x 32 x 1.6	4/6
22151-**860HV**	**18 x 1¼ x .062**	457 x 32 x 1.6	6/10

PORTABLE BAND SAW BLADES

MASTER-BAND 2™ ELECTRON WELD: Bi-metal. Cuts tough materials—even stainless steel. The highest performance blade you can buy.

PRODUCT NO.	TEETH PER IN.
80113-**38-EW-10**	10
80114-**38-EW-10/14**	10/14
80115-**38-EW-14**	14
80116-**38-EW-18**	18
80117-**38-EW-24**	24
3'8⅞" x ½" x .020/1140mm x 13mm x .50mm **FOR BLACK & DECKER, GREENLEE, MILWAUKEE, PORTA-BAND AND RIDGID**	
80118-**45-EW-10**	10
80119-**45-EW-10/14**	10/14
80120-**45-EW-14**	14
80121-**45-EW-18**	18
80122-**45-EW-24**	24
4'5¾" x ½" x .020/1365mm x 13mm x .50mm **FOR GREENLEE AND PORTA-BAND**	
80148-**54-EW-6/10**	6/10
81723-**54-EW-8/12**	8/12
81724-**54-EW-10/14**	10/14
80150-**54-EW-18**	18

NEO-TYPE®: Economy carbon steel utility blade. Cuts straight, fights flexing. Great all-around performer.

PRODUCT NO.	TEETH PER IN.
90364-**38-N-10**	10
90365-**38-N-14**	14
90366-**38-N-18**	18
90367-**38-N-24**	24
90368-**45-N-10**	10
90369-**45-N-14**	14
90370-**45-N-18**	18
90371-**45-N-24**	24
90396-**54-N-10**	10
90397-**54-N-14**	14
90398-**54-N-18**	18
90786-**54-N-24**	24

4'6" x ½" x .025/1370mm x 13mm x .63mm **FOR ENSLEY, GREENLEE AND MILLERS FALLS**

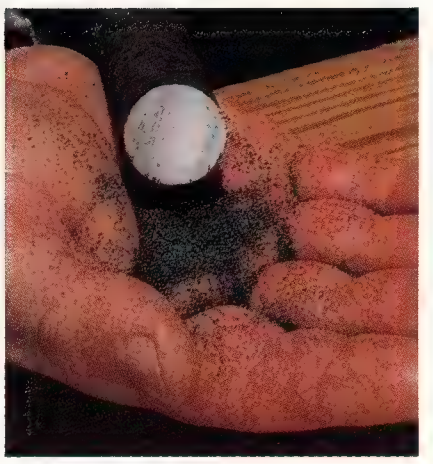
Factory welded to length—Three per box

INSTALLING THE BLADE: Install new blades snug against portable machine guides. Run saw for several seconds, without cutting, to seat blade.

USE THE GUIDE BAR: To assure straight cutting, keep machine guide bar firmly against workpiece. Start cuts slowly with variable speed machines.

TIP FOR FAST CUTTING: Rock the machine gently as you cut, to cut faster, more efficiently. Be sure to maintain a firm grip on machine.

CHECK CHIPS FOR COLOR: Colored chips indicate excessive heat build-up from too much feed and/or speed. Reduce either or both.



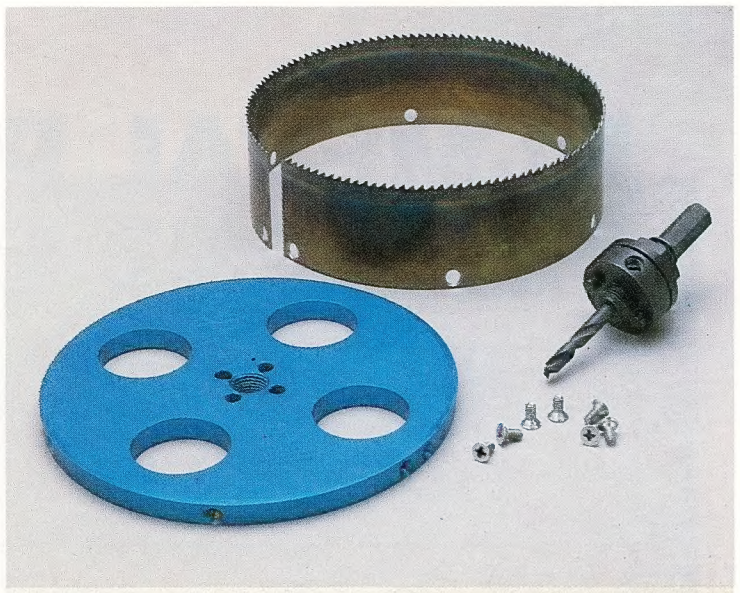
BI-METAL PORTABLE BAND MACHINE LIST

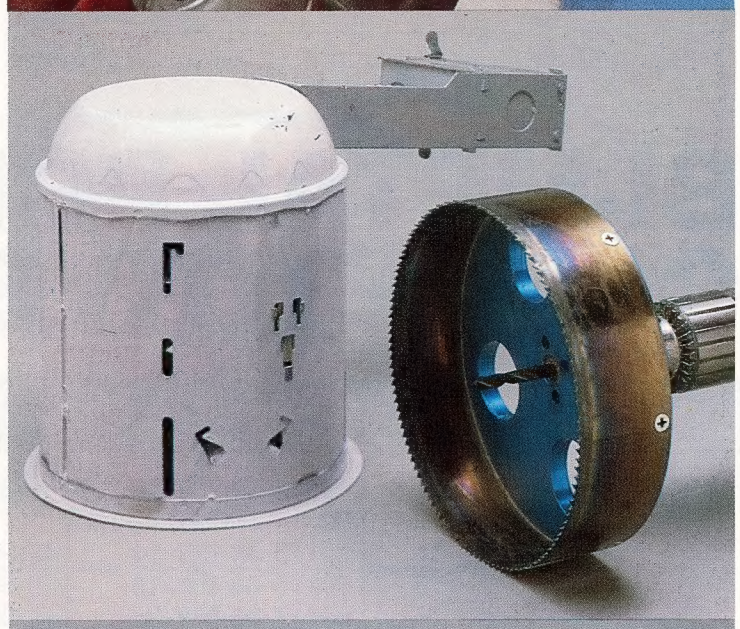
BRAND NAME	MODEL NO.	SIZE
Milwaukee	6230, 6225, 6226	44⅞" x ½" x .020"
Porter Cable	721, 724, 725, 726, 736 728	44⅞" x ½" x .020" 53¾" x ½" x .020"
Greenlee	530 531	44⅞" x ½" x .020" 53¾" x ½" x .020"
Ridgid	941, 942, 943 944	44⅞" x ½" x .020" 53¾" x ½" x .020"
Black & Decker	3122, 3123	44⅞" x ½" x .020"
Ensley	721, 722P	54" x ½" x .025"

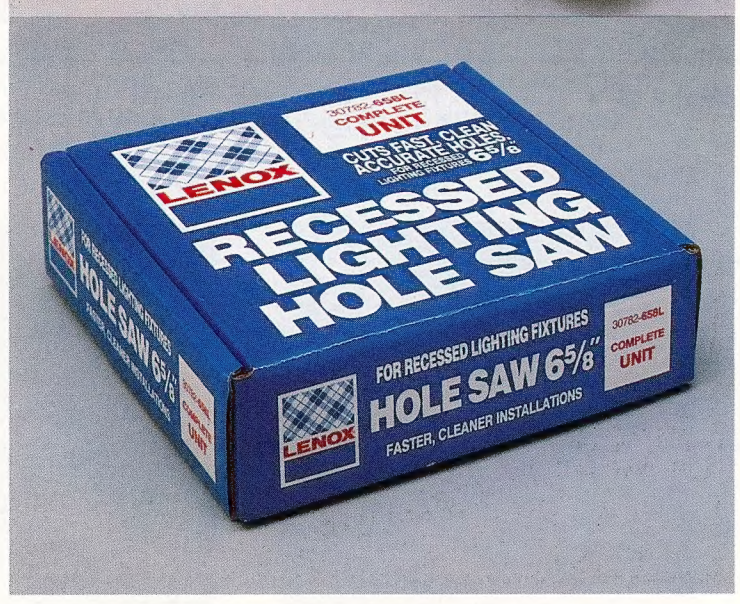
BI-METAL PORTABLE BAND COMPETITIVE COMPARISON CHART

LENGTH x WIDTH x THICKNESS	TPI	LENOX®	MILWAUKEE	PORTER CABLE	BLACK & DECKER	RULE/ CAPEWELL	STERLING	STARRETT	SIMONDS	MILFORD
44⅞" x ½" x .020	10	80113-**38-EW-10**	48-39-0500		31216		23900	14600	61-05103	04970
	10/14	80114-**38-EW-10/14**				B-4410				
	14	80115-**38-EW-14**	48-39-0510	45288	31218	B-4414	23903	14601	61-05143	04971
	18	80116-**38-EW-18**	48-39-0520	45289	31220	B-4418	23906	14602	61-05183	04972
	24	80117-**38-EW-24**	48-39-0530		31222			14603	61-05243	04973
53¾" x ½" x .020	10	80118-**45-EW-10**				B-5310	23909	14604	61-06100	04966
	10/14	80119-**45-EW-10/14**								
	14	80120-**45-EW-14**				B-5314	23912	14605	61-06140	04967
	18	80121-**45-EW-18**				B-5318	23915	14606	61-06180	04968
	24	80122-**45-EW-24**						14607	61-06240	04969
54" x ½" x .025	6/10	80148-**54-EW-6/10**								
	8/12	81723-**54-EW-8/12**								
	10/14	81724-**54-EW-10/14**								
	18	80150-**54-EW-18**								

RECESSED LIGHTING HOLE SAW



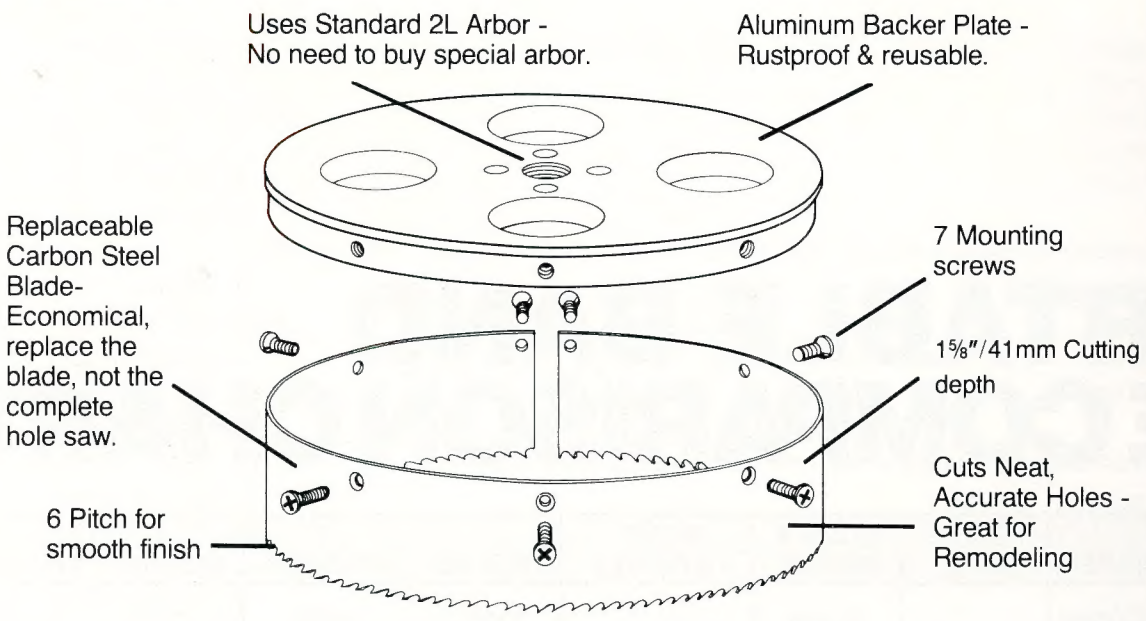




BENEFITS

- Won't chip plaster, and doesn't tear or crack sheetrock.
- Faster than a keyhole saw.
- Exact 6⅝" round holes save the cost of plaster or dry wall rework.
- Makes every installation precise and quick.

Features


Uses Standard 2L Arbor - No need to buy special arbor.
Aluminum Backer Plate - Rustproof & reusable.
Replaceable Carbon Steel Blade- Economical, replace the blade, not the complete hole saw.
7 Mounting screws
1⅝"/41mm Cutting depth
Cuts Neat, Accurate Holes - Great for Remodeling
6 Pitch for smooth finish

1⅝"/41mm cutting depth for thick ceilings. Works for all major fixture housings including HALO® H-7, JUNO® TC2 and CAPRI® RIOX.

ORDERING GUIDE

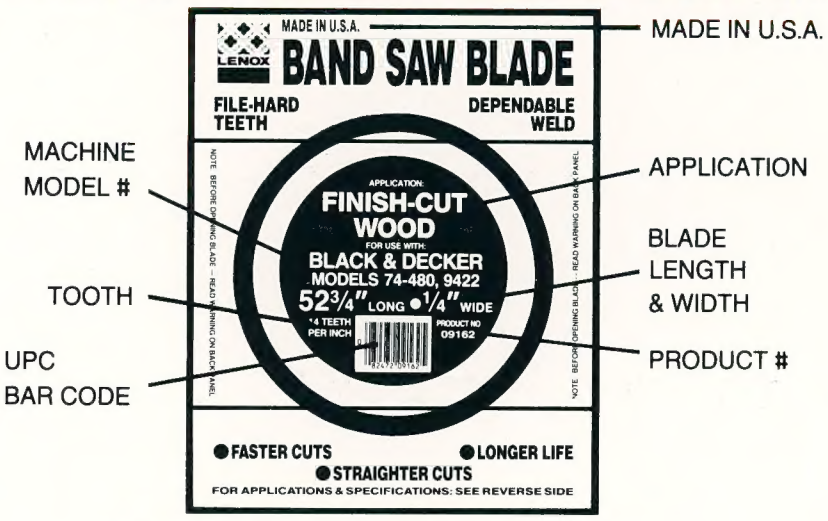
Product Number	LENOX Code	Description
30782	658L	6⅝"/168mm Recessed Lighting Hole Saw
30783	106L	6⅝"/168mm Replacement Blade
30784		Replacement Screws

D-I-Y BAND SAW BLADES

BENEFITS/FEATURES

- **Quality LENOX Blades-** File hard teeth and dependable weld highlight blades that produce faster cuts, straighter cuts, with longer life.
- **One Source For All Your Band Saw Needs-** Lenox is the source for all popular sizes—no need to carry differing brands to fit various band saw machines.
- **Recognized Quality-** Lenox is the world's largest manufacturer of saw blades; our name is synonymous with quality.
- **Fast Moving Sku's-** Insure a much higher inventory turn ratio.

PACKAGING LOADED WITH USER INFORMATION!



THIS INFORMATION ON THE BACK OF EACH CARD:

- MACHINE APPLICATION—ALL SIZES • SAFETY TIPS
- WARNING COPY • TOOTH SELECTION GUIDE

ORDERING GUIDE

SELECT THE RIGHT TEETH PER INCH FOR THE JOB.	
6 TEETH PER INCH	General purpose cutting in wood, plastics, compositions and non-ferrous metal, containing no iron or steel.
14 TEETH PER INCH	FINISH CUT WOOD
18 TEETH PER INCH	General purpose metal cutting for ferrous & non-ferrous metals.
32 TEETH PER INCH	METAL CUTTING TO 3/32" THICK

MACHINE BRAND	LENGTH x WIDTH x GAGE INCHES	MM	TEETH PER INCH/PRODUCT NUMBER 6	14	18	32
BLACK & DECKER 74-480 9422	52¾"x⅛" x .018	1340x3.2 x .45		09158		
	52¾"x¼" x .014	1340x6.4 x .35	09160	09162		09163
DELTA #28160 OHIO FORGE #593-613	56⅛"x⅛" x .018	1425x3.2 x .45		09166		
	56⅛"x¼" x .014	1425x6.4 x .35	09168	09169		09170
SHOPCRAFT T6760	57"x⅛" x .018	1448x3.2 x .45		09173		
	57"x¼" x .014	1448x6.4 x .35	09175	09176		09177
BLACK & DECKER 9411 KING FENG FU	59½"x⅛" x .018	1510x3.2 x .45		09180		
	59½"x¼" x .014	1510x6.4 x .35	09182	09183		09184
SKIL #3104 ALLTRADE #1996B3R REXON #BS-12	62"x⅛" x .018	1575x3.2 x .45		09187		
	62"x¼" x .014	1575x6.4 x .35	09189	09190		09191
SHOPCRAFT T7070 SHOPMASTER EMERSON 10-1455, 10-1451 RIDGID 945 OHIO FORGE #510-505 VARIOUS IMPORTED MACHINES	64½"x½" x .025	1640x12.7 x .63		09888		
DELTA RS28140	71¾"x⅛" x .018	1822x3.2 x .45		09194		
	71¾"x¼" x ..025	1822x6.4 x .63	09195		09196	
	71¾"x⅜" x .025	1822x9.5 x .63	09197		09198	
DELTA #28285	93½"x¼" x .025	2375x6.4 x .63	09890		09891	
DELTA #28230	93½"x⅜" x .025	2375x9.5 x .63	09892		09893	
OHIO FORGE #510-556	93½"x½" x .025	2375x12.7 x .63	09894		09895	

CAR

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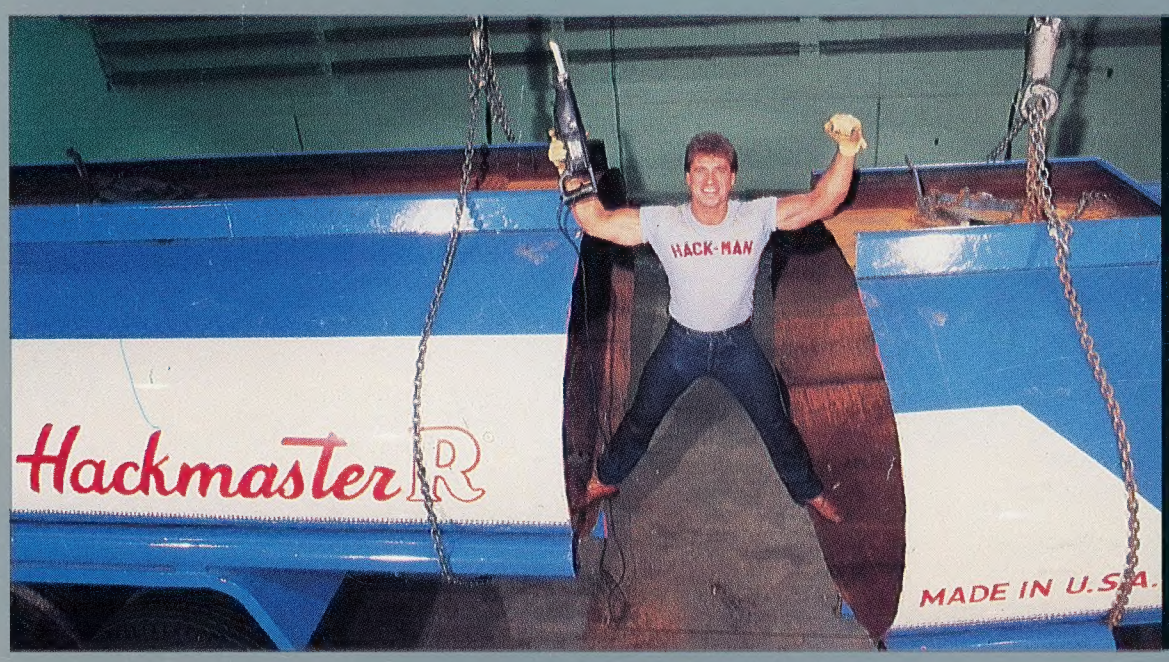
HACKMASTER® BI-METAL BLADES



TANKER

26.6

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...FOR THE GOOD TIMES!

AIRPLANE

24.0

MIN

LENOX

U.S TECHNOLOGY/AMERICAN SAW QUALITY

AMERICAN SAW & MFG. COMPANY

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